

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 59146068  
PUBLICATION DATE : 21-08-84

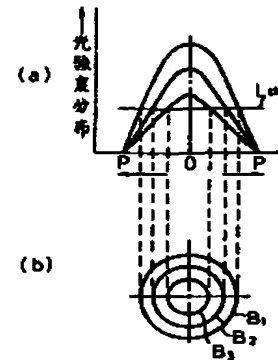
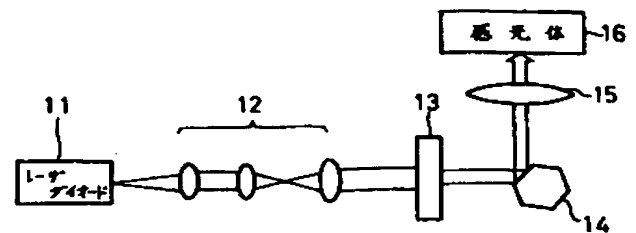
APPLICATION DATE : 08-02-83  
APPLICATION NUMBER : 58018046

APPLICANT : NIPPON TELEGR & TELEPH CORP  
<NTT>;

INVENTOR : HOSHINO HIROYUKI;

INT.CL. : G03G 15/04 H04N 1/26

TITLE : RECORDING METHOD



ABSTRACT : PURPOSE: To improve expressing performance for half-tone and to perform half-tone recording with fidelity by controlling the diameter of a laser beam spot on the surface of a photosensitive body to record in responding to the density with which the recording is performed.

CONSTITUTION: A filter 13 having an increasing transmittance rate toward the center part is installed between a laser diode 11 and a rotary polygon mirror 14, and the intensity of a laser beam outputted by the laser diode 11 is converted into a beam having the distribution corresponding to the density signal of recording information. This beam is reflected by the rotary polygon mirror 14 to scan on the photosensitive body 16 through an F $\theta$  lens 15, writing the recording information. Only a beam with light intensity larger than a specific slice level  $L_{th}$  operates effectively on the photosensitive body 16, so beam spots with different diameters corresponding to the light intensity distribution, e.g. B<sub>1</sub>~B<sub>3</sub> are formed.

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